

Seat No.: _____

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

DEPARTMENT OF COMPUTER APPLICATIONS

Program: Bachelor of Computer Applications

Semester-I End Semester Examination (Practical)

Date: 15-10-2019

Day: Tuesday

Duration: 10:15AM- 11:15AM

BCA1112C04 Introduction to Programming using Python Lab

Marks: 40

Batch-B

INSTRUCTIONS:

1. Attempt all.
2. In the beginning of each file, write the program objective, name of programmer, date of program creation, programming language and version of program.
3. Name your variables appropriately.
4. Add comments whenever necessary. Functions should have doc string.
5. Write pythonic code.

SET A

Q1.

(20)

Write a program that performs the following operations using appropriate functions on a string.

- a) Check whether the string is a valid identifier or not.
- b) Convert the string into title case.
- c) Get the elements at alternate places.
- d) Swap the case of the string.
- e) Find whether a character or a substring is there in your string or not.
- f) Centrally justify a string with a width of 50 and fill string '&'.
- g) Check whether a string is alpha-numeric or not.
- h) Convert your string to upper after checking the case of the string.
- i) Change a part of the string with another string.
- j) Remove all the whitespaces of your string, if any

Q2.

(10)

Write a program for Guessing Game. This program will ask the user to guess a number between 1 and 99.

Hints:

import random module.

Take help about a function in random module which generates random numbers between two ranges.

Generate a random number using the function.

Use while loop.

Use if..elif..else to tell whether the guess the greater, lesser and correct.

In the case of correct guess, break the loop.

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Q3.

(10)

Write a function that takes variable number of arguments and returns the sum , sum of squares, sum of cubes, average, multiplication, multiplication of squares, multiplication of cubes of that numbers.
